

CLAIMS

What is claimed is:

- 1 1. A method for integrating messaging functionality into database operations, the
2 method comprising:
 - 3 (a) providing one or more chosen functions from a messaging system in a database
4 system; and
 - 5 (b) utilizing the one or more chosen functions from the database system within
6 structured query language statements to access the messaging system from the database
system.
- 2 2. The method of claim 1 wherein step (a) further comprising (a1) adding the one or
more chosen functions as user-defined functions in the database system.
- 3 3. The method of claim 2 wherein the user-defined functions further comprise
functions to place a message on a queue of the messaging system, retrieve at least one
message from the queue, non-destructively retrieve all messages from the queue, and read at
least one message from the queue.
- 4 4. The method of claim 3 wherein the user-defined functions further specify a
service endpoint.
- 1 5. The method of claim 4 wherein the user-defined functions further specify a

2 destination and delivery policy.

1 6. The method of claim 1 further comprising providing one or more chosen
2 functions from a publish/subscribe-based messaging system.

1 7. A system for integrating messaging functionality into database operations, the
2 system comprising:

3 at least one computer processing device;
4 a messaging program means installed on the at least one computer processing device
5 for performing messaging functionality; and
6 a database program means installed on the at least one computer processing device,
7 the database program means utilizing one or more chosen functions of the messaging
8 program means via structured query language statements to integrate the messaging
9 functionality within database functionality of the database program means.

8. The system of claim 7 wherein the one or more chosen functions further comprise
2 user-defined functions in the database program means.

1 9. The system of claim 8 wherein the user-defined functions further comprise a
2 functions to place a message on a queue of the messaging system, retrieve at least one
3 message from the queue, non-destructively retrieve all messages from the queue, and read at
4 least one message from the queue.

1 10. The system of claim 9 wherein the user-defined functions further specify a
2 service endpoint.

1 11. The system of claim 10 wherein the user-defined functions further specify a
2 delivery policy.

1 12. The system of claim 7 wherein the messaging program means further comprises
2 a publish/subscribe-based messaging program means.

1 13. A computer readable medium containing program instructions for integrating
2 messaging functionality into database operations, the program instructions comprising:

3 (a) providing one or more chosen functions from a messaging system in a database
4 system; and

5 (b) utilizing the one or more chosen functions from the database system within
6 structured query language statements to access the messaging system from the database
7 system.

1 14. The program instructions of claim 13 wherein step (a) further comprising (a1)
2 adding the one or more chosen functions as user-defined functions in the database program.

1 15. The program instructions of claim 14 wherein the user-defined functions further
2 comprise a functions to place a message on a queue of the messaging system, retrieve at least
3 one message from the queue, non-destructively retrieve all messages from the queue, and

4 read at least one message from the queue.

1 16. The program instructions of claim 15 wherein the user-defined functions further
2 specify a service endpoint.

1 17. The program instructions of claim 16 wherein the user-defined functions further
2 specify a destination and delivery policy.

1 18. The program instructions of claim 13 further comprising providing one or more
2 chosen functions from a publish/subscribe-based messaging system.

PRINTED IN U.S.A. ON RECYCLED PAPER